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Larry O'Gorman. **LAWRENCE O'GORMAN** BIOGRAPHY: **Lawrence O'Gorman** is a Distinguished Member of Technical security.
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... **Lawrence O'Gorman**. **Lawrence O'Gorman** is a Research Scientist at Avaya Labs Research where he works in ... Dr.
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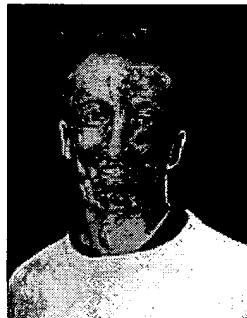
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Avaya Labs Research

Larry O'Gorman



Larry O'Gorman's Web Page

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 Web: www.research.avayalabs.com/user/o'gorman

Fields of Work:

- Image processing, pattern recognition, security
- End-user authentication
- My work in the recent few years has combined aspects of signal processing and security. Applications include: biometrics, anti-counterfeiting of documents, and watermarking.

Recent Publications:

- ["Comparing Passwords, Tokens, and Biometrics for User Authentication,"](#) Proceedings IEEE, Vol. 91, No. 12, Dec. 2003, pp. 2019-2040. Paper compares the 3 general types of authenticators with respect to security advantages and disadvantages.
- ["Call center customer verification by query-directed passwords,"](#) Int. Conf. Financial Cryptography, FC'04, Florida, Feb. 2004. Paper describes how QDP (Query-Directed Passwords) can be used for convenient and secure customer authentication at call centers.
- ["Securing Business's Front Door"](#), 30-Sept-02
 Paper describes authentication technologies to a business audience, including passwords, smart cards, biometrics, and future technologies. (Word document.)
- ["Human Authentication: The Achilles Heel of Secure Systems"](#)
 Background on human authentication, issues with current technologies, future trends and technologies. Presented at Stevens Institute, 25-Mar-02. (Powerpoint presentation.)
- ["Seven Issues with Human Authentication Technologies"](#) Technological

issues and limitations with human authentication methods as applied to public security applications. Presented at CAIP Symposium on Information Technologies for Homeland Security, Rutgers University on 29-Nov-01. (Powerpoint presentation.)

Other External Publications, Etc:

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 Larry O'Gorman


 Avaya Labs Research

Lawrence O'Gorman Publication List:

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L. O'Gorman, A. Bagga, J. Bentley, "Call center customer verification by query-directed passwords," *Financial Cryptography '04*, Florida, Feb 2004.

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R. Derakhshani, S. Schuckers, L. Hornak, L. O'Gorman, "Determination of Vitality from A Non-Invasive Biomedical Measurement for Use in Fingerprint Scanners," *Pattern Recognition*, Feb. 2003, pp. 383-396.

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Book Chapters:

L. O'Gorman, "Securing Business's Front Door: Password, Token, and Biometric Authentication," in Guarding Your Business: An Architecture for Security, edited by S. Ghosh, M. Malek, E. A. Stohr, Kluwer Press, 2004, Ch. 8.

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Special Issues:

X. Tang, S. Ma, L. O'Gorman, M. Tistarelli, "Image-and Video-Based Biometrics", (special issue, part I), IEEE Trans. Circuits and Systems for Video Technology, Jan. 2004.

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L. O'Gorman, R. Kasturi, "Document Image Analysis Systems", (special issue), IEEE Computer, Vol. 25, No. 7, July 1992.

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Standards:

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Articles:

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- “What is Pattern Recognition?” 1-2003
- “Pattern Recognition in Sports,” 2-2003
- “Pattern Recognition in Security and Entertainment,” 3-2003
- “Pattern Recognition in Maps,” 4-2003
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SELECTED INVITED TALKS:

Rutgers University, CAIP Center (October 2003),

Stevens Institute (March, 2002),

Homeland Security Symposium, Rutgers University (November 2001),

Telcordia Technologies (March 2001), Princeton University (February 2001),

Biometric Consortium Meeting (September 2000),

Asilomar Microcomputer Conference (April 1999),

Lucent Security Symposium (February 1998),

West Virginia University (November 1998),

CardTech/SecurTech (February 1998),

University of Nebraska at Lincoln (Aug 1994),

Xerox PARC (July 1994),

Meeting of the American Society for Information Scientists, (October 1991),

Hitachi Labs (December 1990),

NEC Labs (December 1990),

Penn State University (September 1990),

Sandia National Labs (July, 1988)

U.C. Berkeley (July 1988),

Bell Communications Research (March 1987),

SUNY Stony Brook (March, 1987),

Imperial College (November 1985),

Fairchild Laboratory for Artificial Intelligence Research

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PATENTS GRANTED AND APPLIED:

13 U.S. patents granted

8 U.S. patent applications

Patents Granted:

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PROFESSIONAL SERVICE:

- NRC Assessment Panel for NIST Information Technology Lab: 1999-2004
- IEEE Trans. Circuits and Systems for Video Technology, Special Issue on Image- and Video-Based Biometrics, Guest Editor, 2004, Jan., Feb., issues
- IAPR Newsletter Editor: 2002-
- Editorial board member for:
 - Pattern Recognition
 - Machine Vision and Applications
 - International Journal of Document Analysis and Recognition
 - International Journal on Artificial Intelligence Tools (-1998)
- NJ Commission on Science and Technology, Review Committee, 2003
- NJ Center for Pervasive Information Technology, Princeton University, Advisory Board, 1999, 2002
- IEEE Computer Fellow Committee: 1998-2001
- IAPR Fellow Committee: 2000
- IAPR Industrial Liaison Committee: 1994-2000 (chair 1998)
- IEEE Security and Privacy Editor-in-Chief Search Committee, 2002
- IEEE PAMI Editor-in-Chief Search Committee, 1998
- Co-editor, IEEE Trans. Circuits and Systems for Video Technology, Special Issue on Image- and Video-Based Biometrics, 2003
- Associate Editor, Lecture Notes for Computer Science, GREC Issue, 2003

- Industrial Advisory Board, CAIP Center, Rutgers University, 2001-
- IEEE PAMI Editor-in-Chief Search Committee
- IEEE Security and Privacy Editor-in-Chief Search Committee
- Co-chair, IEEE Workshop on Automatic Identification Advanced Technologies, Summit, NJ, Oct. 1999
- Program chair, IEEE Workshop on Automatic Identification Advanced Technologies, Stony Brook, NY, 1997
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- Lecture Notes for Computer Science, associate editor, GREC issue, 2002
- Program Committee Member:
 - SPIE Conf. on Biometrics Technology for Human Identification, April 2004, Orlando
 - ICDAR, Int. Conf. Document Analysis and Recognition, 2003, Scotland
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